

## COX2/Cyclooxygenase 2 Mouse Monoclonal Antibody(2G1)

Catalog TDY675C TDY675F

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Quantity 50 $\mu$ L 100 $\mu$ L

Entrez-Gene ID:5743, Swiss-Prot Acc.P35354

**For research use only.**

| Applications | Species | Cross-Reactivity | Molecular Weight | Isotype |
|--------------|---------|------------------|------------------|---------|
| IHC          | H, R, M |                  | 74KD             | IgG1    |

**Storage Buffer & Condition:** PBS, pH 7.4, containing 0.02% **sodium azide** as Preservative and 50% Glycerol.  
Store at **-20°C. Do not aliquot the antibody.**

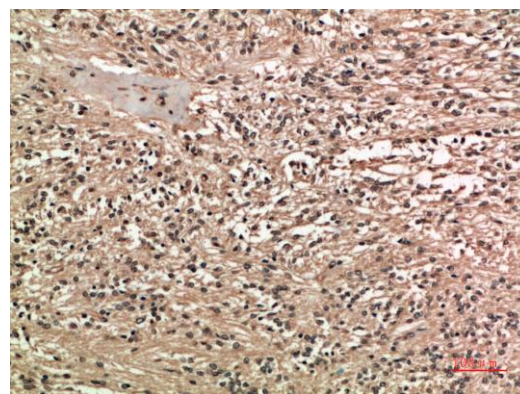
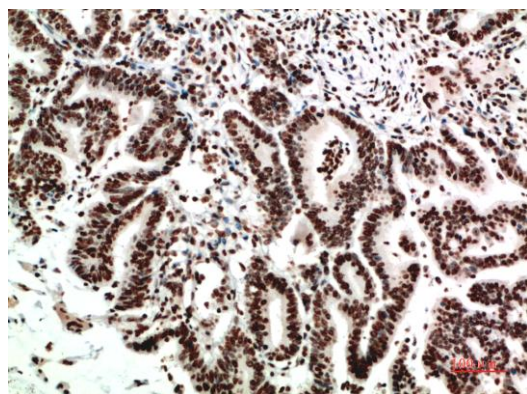
**Recommended dilutions:** IHC: 1:100-200

**Optimal dilutions should be determined by the end user.**

**Specificity:** The COX2 Mouse Monoclonal antibody detects endogenous COX2 proteins.

**Alternative Names:** PTGS2 antibody, Prostaglandin H2 synthase 2 antibody, PGHS 2 antibody, Glucocorticoid-regulated inflammatory cyclooxygenase antibody

**Background:** Prostaglandin-endoperoxide synthase 2, also known as cyclooxygenase-2 or simply COX-2, is an enzyme that in humans is encoded by the PTGS2 gene. There are two isozymes of COX encoded by distinct gene products: a constitutive COX-1 (this enzyme) and an inducible COX-2, which differ in their regulation of expression and tissue distribution. The expression of these two transcripts is differentially regulated by relevant cytokines and growth factors. A splice variant of COX-1 termed COX-3 was identified in the CNS of dogs, but does not result in a functional protein in humans. Two smaller COX-1-derived proteins (the partial COX-1 proteins PCOX-1A and PCOX-1B) have also been discovered, but their precise roles are yet to be described.



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using COX-2 (TDY675) Mouse mAb diluted at 1:200

Immunohistochemical analysis of paraffin-embedded Human Ovarian Carcinoma Tissue using COX-2 (TDY675) Mouse mAb diluted at 1:200